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10/564,501	07/05/2006	Jean-Christophe Giron	283486US0PCT	9280
22859 7596 077222999 OBLON, SPIVAK, MCCLEILAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			NELSON, MICHAEL B	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

### Application No. Applicant(s) 10/564,501 GIRON ET AL. Office Action Summary Examiner Art Unit MICHAEL B. NELSON 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 May 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18.21 and 22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-18, 21 and 22 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date \_\_\_\_\_\_

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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#### DETAILED ACTION

### Response to Amendment

Applicant's amendments filed on 05/20/09 have been entered. Claims 1-18, 21 and 22 are currently under examination on the merits. Claims 19, 20 and 23 are cancelled.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
  obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459
   (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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 Claims 1-11, 15-18, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giron et al. (WO/2002/006889), see English language equivalent Giron et al. (U.S. 2004/0053125) in view of Barth et al. (U.S. 6.294.233).

Regarding claim 1, Giron et al. discloses a glazing assembly, which reads on the limitations of instant claim 1.

(See [0020]-[0024], the active layers (i.e. electrochromic system layers) and the protective polymer layer lie in between the two rigid substrates. The order of the layers is disclosed at [0080]: rigid glass substrate (1), active stack (2) (3) and (4), EVA film (not shown in Figs.) and second rigid glass substrate (5). The presence of the EVA film between the active component of the glazing and the second glass layer is further disclosed at [0024] and [0025]. The first rigid glass substrate is a "protective" substrate in that it provides a degree of protection to the internally laminated active stack. The second rigid substrate is a "carrier" substrate in that it is bonded to and carries the active stack and the EVA film.)

While Giron et al. does not explicitly disclose that the polymer layer functions to retain fragments of the glazing assembly should the assembly break, in light of the substantially identical polymer layer thickness and composition (i.e. polyurethane ([0024]) 0.8 mm thick ([0091])) with the instant disclosed polymer layer, (See instant specification, page 9, lines 1-5), it will, intrinsically, possess the claimed properties, absent any objective evidence to the contrary.

See MPEP 2112 (In re Fitzgerald, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980).

Giron et al. does not explicitly disclose an additional solar protective layer being positioned on the outer face of the first substrate, however, Barth et al., which is also directed

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towards optically functional glass based panels, discloses that solar protective films, which could be affixed to the outer surface of glass panels, were known to those having ordinary skill at the time of the invention (C1, L25-50). One having ordinary skill in the art would have found it obvious to have provided one of solar protective films of Barth et al. to the outer surface of the substrates of the panel of Giron et al. in order to improve the protection from solar radiation (C1, L15-25).

Regarding the "faces outside towards the sun" limitation, this limitation is intended to specify the orientation of the glazing upon it final application. One having ordinary skill in the art would have found it obvious to have applied the glazing of Giron et al. in both orientations (i.e. active stack adjacent substrate facing inward and facing outward) when designing the appropriate manner for installing it, for example, in an automobile.

Regarding claims 2, 3, 9 and 10, modified Giron et al. discloses all of the claimed limitations as set forth above. Additionally, the reference discloses a glazing assembly which reads on claims 2, 3, 9 and 10.

(See Abstract, the active system in the assembly is electochromic, which provides and optical function. See [0124], the screen-printing of conductive strips in place of the wires which lie along the periphery of the substrates (Fig. 7, 14a-c, 15a-c) is disclosed. These conductive strips would alter the opacity of the substrate to some degree and therefore would constitute an opacifying coating. See [0040]-[0046], the deactivated lower electroconductive layer along the periphery of the substrate, (deactivated via localized ablation, [0046]), constitutes a margining line.)

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Regarding claims 4-8, 21 and 22, modified Giron et al. discloses all of the claimed limitations as set forth above. Additionally, the reference discloses a glazing assembly which reads on claims 4-8, 21 and 22.

(See [0091]-[0092], the two substrates are of glass about 2mm thick each, and the plastic layer is 0.8mm thick, which makes a total thickness of 2.8mm thick. The other layers deposited in the assembly have a maximum disclosed total thickness of 1340 nm or 0.00134mm (i.e. 20+350+100+100+100+370+300 nm), making the total assembly thickness 2.80134mm, which lies within the ranges of instant claims 5 and 6. The two glass substrates are about 2mm thick each, which makes them substantially the same dimension and they have identical rectangular shapes, while in Fig. 4 ([0107]), one glass pane is smaller than the other, giving it the same shape with different dimensions. See [0070], the glass substrates are disclosed as being bulk tinted, which gives them a degree of opacity and therefore makes them opacified substrates.)

Regarding claims 11, 15 and 16, modified Giron et al. discloses all of the claimed limitations as set forth above. Additionally, the reference discloses a glazing assembly which reads on claims 11, 15 and 16.

(See [0069]-[0070], an insulating polymer film frame is disclosed to lie around the periphery of the substrates as a seal, with two of its sides having flexible conductive current leads or conductive coatings which serve as connection elements for the active system within the frame and also provide a degree of mechanical reinforcement for the polymer seal. Also, the polymer film frame is positioned on, and at least partially fills,

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the marginal deactivated areas, which, being deactivate via ablation, constitute open groove spaces between the two substrates.)

Regarding claim 17, modified Giron et al. discloses all of the claimed limitations as set forth above. Additionally, the reference discloses a method of forming an article comprising, forming an article with a glazing assembly; wherein the article is selected from the group consisting of a window, a sunroof, a skylight, a display panel, a display case, and a piece of furniture.

(See [0080]-[0092], the method for making assembly is disclosed. See [0074], an embodiment of the assembly in an automobile roof (i.e. sunroof) is disclosed.)

Regarding claim 18, Giron et al. discloses all of the claimed limitations as set forth above.

Giron et al. does not explicitly disclose the specific passing of the safety tests of the ECE R43 and ANSI Z26.1 standards for the glazing assembly. However, in light of the substantially identical glass substrate thickness, polymer layer composition and thickness and the substantially identical sealants in the glazing assembly of Giron et al. with the instant glazing assembly, it will, inherently, possess the claimed properties, absent any objective evidence to the contrary.

See MPEP 2112 (In re Fitzgerald, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980).

Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giron et al.
 (WO/2002/006889) in view of Barth et al. (U.S. 6,294,233) as applied to claims 1 and 11 above, and further in view of Johnson et al. (U.S. 6,284,360).

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Regarding claims 12-14, modified Giron et al. discloses all of the claimed limitations as set forth above. Additionally Giron et al. discloses a glazing assembly used in an embodiment for a vehicle sun roof, ([0074]), which would require a secondary frame seal to mount the assembly into the vehicle.

Giron et al. does not disclose a glazing assembly which explicitly meets the limitations of claims 12-14.

Johnson et al. discloses a scalant composition for use with motor vehicle windshields (See Abstract) which meets the limitations of claims 12-14.

(See Fig. 8, the seal encapsulates and is in contact with the edges of the windshield. Also see Fig. 7, the seal is flush with both outer faces of the windshield.)

The use of produce-by-process limitations has been noted in Claim 13, such as, for example, "seals are formed by extrusion or obtained by encapsulation." While Johnson et al. does in fact teach these processes to produce seals, the examiner notes that even though a product-by-process is defined by the process steps by which the product is made, determination of patentability is based on the product itself. In re Thorpe, 777 F.2d 695, 227 USPQ 964 (Fed. Cir. 1985). As the court stated in Thorpe, 777 F.2d at 697, 227 USPQ at 966 (The patentability of a product does not depend on its method of production. In re Pilkington, 411 F.2d 1345, 1348, 162 USPQ 145, 147 (CCPA 1969). If the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.).

Giron et al. discloses a glazing assembly for use in a vehicle sun roof without any specific mention of the means for mounting the glazing assembly and therefore it would have been obvious to look to other references for an appropriate vehicle mounting system (as in Johnson et al.). The inventions of both Giron et al. and Johnson et al. are drawn to the field of windshields and therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to have included the scalant of Johnson et al. with the assembly of Giron et al. for the purposes of installing the windshield in the vehicle for which it is intended to reside.

#### Response to Arguments

- Applicant's arguments filed on 05/20/09 are considered moot in light of the new grounds
  of rejection which were necessitated by applicant's amendments. Arguments which are still
  deemed to be relevant are addressed below.
- 8. Regarding applicant's summation of the examiner position to the two points (i.e. at the top of page 10), the applicant has correctly summarized the examiners position as initially presented at the most recent interview.
- 9. Regarding the first point, the applicant attempts to show that certain layers have a disclosed orientation in Giron et al. based on the usage of the terms: above, surmounted, embedded, carrier, upper and lower. While the examiner agrees that these terms are used to show the relative arrangement and order of the layers, the terms are used solely in relation to the manufacturing of the glazing unit. The instant limitation in question is concerned solely with the orientation of said unit in its final application. As such, the terms referenced by the applicant are moot in so much as they limit the glazing of Giron et al. to one particular orientation in its final application. In short, Giron et al. does not disclose, one way or the other, how the glazing should be applied in it final application.

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10. Regarding the second point, the glazing of Giron et al. is intended for use in vehicle windows in general and is not specified to any degree. Therefore the specific manner in which the glazing is installed would fall to the obvious knowledge of one skill in the art of installing windows into vehicles. Since the limitation in question pertains to which side of the two sided glazing faces towards the sun, there are only two possible orientations to try. Given a finite number of predictable solutions it would have been obvious to choose the placement of the glazing so that the substrate adjacent the active stack is facing outside towards the sun.

Regarding the purported benefits of this particular orientation as cited by the applicant in the instant specification, these benefits would be inherently realized from one having ordinary skill in the art choosing from the finite (i.e. 2) possible orientations of the glazing and are therefore not considered to be relevant to the patentability of the limitation.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL B. NELSON whose telephone number is (571) 270-3877. The examiner can normally be reached on Monday through Thursday 6AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on (571) 272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R. Sample/ Supervisory Patent Examiner, Art Unit 1794

/MN/ 07/10/09